THIRD YEAR SURVIVAL AND HEIGHTS FOR SELECTED 1985 PLANTATIONS

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INTRODUCTION

The Timber Management Branch of the New Brunswick Department of Natural Resources and Energy has been assessing survival and growth in selected Crown Land plantations since 1977. This summary report presents information on heights and third year survival for plantations selected in 1985. Selection was based on special nursery stock characteristics or different establishment practices.

The information is presented in tables and graphs and interpretation of data is left to the reader. Description of the methods used can be found in "Third Year Survival and Heights of 1977 Plantations" - copies of which are available upon request from the Timber Management Branch, Hugh John Flemming Forestry Complex, Fredericton, New Brunswick.

Copies of "Third Year Survival and Heights for 1978, 1979, 1980, 1981, 1982, 1983 and 1984 Plantations" are also available upon request from the Timber Management Branch.

TABLE 1-85 Number of trees planted, area planted and percent of area sampled by license, species, and stock type for selected 1985 plantations.

License		Black Spruce				White Spruce		Jack Pine				Red Pine	Eastern Larch
		BR[1]	PP[2]	OWCA[3]	CO[4]	BR	PP	BR	PP	CO	JP[5]	PP	PP
1	Number	-	2 849 000	-	-	-	-	-	79 000	-		-	-
	Area	-	1 345	-	-	-	-	-	24	-		-	-
	%	-	14	-	-	-	-	-	100	-		-	-
2	Number	-	1 938 000	-	-	-	4 000	-	421 000	-	-	-	21 000
	Area	-	836	-	-	-	2	-	190	-	-	-	9
	%	-	11	-	-	-	0	-	39	-	-	-	100
3	Number	-	665 000	-	-	-	-	291 000	1 458 000	-	-	-	-
	Area	-	315	-	-	-	-	138	668	-	-	-	-
	%	-	17	-	-	-	-	67	27	-	-	-	-
4	Number	-	1 239 000	-	-	-	-	-	2 407 000	-	77 000	98 000	-
	Area	-	579	-	-	-	-	-	1 109	-	35	48	-
	%	-	56	-	-	-	-	-	55	-	100	100	-
5	Number	-	357 000	-	-	6 000	-	44 000	205 000	-	-	-	-
	Area	-	155	-	-	3	-	21	96	-	-	-	-
	%	-	6	-	-	100	-	100	59	-	-	-	-
6	Number	91 000	2 193 000	-	-	-	-	1 723 000	1 666 000	-	-	-	-
	Area	44	1 017	-	-	-	-	792	792	-	-	-	-
	%	100	Nil	-	-	-	-	8	8	-	-	-	-

TABLE 1-85 Continued.

License		Black Spruce				White Spruce		Jack Pine				Red Pine	Eastern Larch
		BR[1]	PP[2]	OWCA[3]	CO[4]	BR	PP	BR	PP	CO	JP[5]	PP	PP
7	Number	-	1 115 000	-	-	-	-	825 000	392 000	-	-	-	-
	Area	-	545	-	-	-	-	403	194	-	-	-	-
	%	-	34	-	-	-	-	24	22	-	-	-	-
8	Number	-	1 294 000	-	-	143 000	-	-	-	-	-	-	-
	Area	-	589	-	-	70	-	-	-	-	-	-	-
	%	-	16	-	-	64	-	-	-	-	-	-	-
9	Number	-	428 000	-	-	-	-	-	554 000	-	-	-	-
	Area	-	197	-	-	-	-	-	266	-	-	-	-
	%	-	48	-	-	-	-	-	72	-	-	-	-
10	Number	25 000	2 098 000	1 297 000	100 000	-	202 000	-	18 000	58 000	-	-	77 000
	Area	12	1 046	675	48	-	100	-	9	27	-	-	42
	%	Nil	16	28	100	-	37	-	Nil	100	-	-	100

[1]Bare Root Stock Type
[2]Paper Pot Stock Type-Included is winter, overwintered, and summer crop stock.
[3]Overwintered Can Am Stock Type
[4]Combicel Stock Type-Included is winter and overwintered crop stock.
[5]Jiffy Pot Stock Type

TABLE 2-85 Mean survival in percent one year and three years after planting by species and stock type for selected 1985 plantations.

		Upsal-quitch	Nepi-sigait	Lower Miramichi	Upper Miramichi	Kent	Queens Charlotte	Fundy	York	Carleton	Restigouche Tobique	Provincial Average
Black Spruce												
Winter Crop Paper Pot	YR 1	49	91	80	79	-	-	88	90	-	93	83
	YR 3	51	88	75	73	-	-	85	88	-	89	79
Winter Crop Combicel	YR 1	-	-	-	-	-	-	-	-	-	96	96
	YR 3	-	-	-	-	-	-	-	-	-	79	79
Overwintered Paper Pot	YR 1	82	-	-	91	87	-	-	86	86	96	88
	YR 3	79	-	-	88	87	-	-	84	81	91	85
Overwintered Can Am	YR 1	-	-	-	-	-	-	-	-	-	90	90
	YR 3	-	-	-	-	-	-	-	-	-	86	86
Bare Root 3-0	YR 1	-	-	-	-	-	85	-	-	-	-	85
	YR 3	-	-	-	-	-	85	-	-	-	-	85
White Spruce												
Winter Crop Paper Pot	YR 1	-	-	-	-	-	-	-	-	-	99	99
	YR 3	-	-	-	-	-	-	-	-	-	94	94
Bare Root 3-0	YR 1	-	-	-	-	97	-	-	86	-	-	88
	YR 3	-	-	-	-	97	-	-	82	-	-	84
Jack Pine												
Winter Crop Paper Pot	YR 1	-	-	-	-	-	-	69	-	-	-	69
	YR 3	-	-	-	-	-	-	68	-	-	-	68
Summer Crop Paper Pot	YR 1	72	-	93	87	-	-	-	-	-	-	84
	YR 3	71	-	92	84	-	-	-	-	-	-	82

Table 2-85 Continued

		Upsal-quitch	Nepi-sigait	Lower Miramichi	Upper Miramichi	Kent	Queens Charlotte	Fundy	York	Carleton	Restigouche Tobique	Provincial Average
Overwintered Paper Pot	YR 1	-	98	-	93	99	83	-	-	97	-	93
	YR 3	-	97	-	92	99	83	-	-	93	-	92
Overwintered Combicel	YR 1	-	-	-	-	-	-	-	-	-	95	95
	YR 3	-	-	-	-	-	-	-	-	-	93	93
Bare Root 2-0	YR 1	-	-	-	-	100	68	87	-	-	-	84
	YR 3	-	-	-	-	100	66	84	-	-	-	82
	YR 1	-	-	94	-	-	-	-	-	-	-	94
Bare Root 3-0	YR 3	-	-	93	-	-	-	-	-	-	-	93
Jack Pine												
Winter Crop Jiffy Pot	YR 1	-	-	-	94	-	-	-	-	-	-	94
	YR 3	-	-	-	94	-	-	-	-	-	-	94
Red Pine												
Winter Crop Paper Pot	YR 1	-	-	-	89	-	-	-	-	-	-	89
	YR 3	-	-	-	80	-	-	-	-	-	-	80
Larch												
Paper Pot	YR 1	-	89	-	-	-	-	-	-	-	-	89
	YR 3	-	85	-	-	-	-	-	-	-	-	85
Winter Crop Paper Pot	YR 1	-	-	-	-	-	-	-	-	-	92	92
	YR 3	-	-	-	-	-	-	-	-	-	76	76

TABLE 3-85 Average height in centimeters of plantation trees - initial, one year and three years after planting by species and stock type for selected 1985 plantations.

		Upsal-quitch	Nepi-siguit	Lower Miramichi	Upper Miramichi	Kent	Queens Charlotte	Fundy	York	Carleton	Restigouche Tobique	Provincial Average
Black Spruce												
Winter Crop Paper Pot	Init	13	15	15	15	-	-	12	16	-	17	15
	YR 1	14	19	19	26	-	-	21	26	-	19	21
	YR 3	32	46	39	70	-	-	66	57	-	45	55
Winter Crop Combicel	Init	-	-	-	-	-	-	-	-	-	20	20
	YR 1	-	-	-	-	-	-	-	-	-	34	34
	YR 3	-	-	-	-	-	-	-	-	-	61	61
Overwintered Paper Pot	Init	12	-	-	15	14	-	-	18	18	13	15
	YR 1	25	-	-	26	18	-	-	29	20	24	24
	YR 3	62	-	-	55	43	-	-	75	55	51	58
Overwintered Can Am	Init	-	-	-	-	-	-	-	-	-	19	19
	YR 1	-	-	-	-	-	-	-	-	-	32	32
	YR 3	-	-	-	-	-	-	-	-	-	58	58
Bare Root 3-0	Init	-	-	-	-	-	18	-	-	-	-	18
	YR 1	-	-	-	-	-	28	-	-	-	-	28
	YR 3	-	-	-	-	-	55	-	-	-	-	55
White Spruce												
Winter Crop Paper Pot	Init	-	-	-	-	-	-	-	-	-	16	16
	YR 1	-	-	-	-	-	-	-	-	-	26	26
	YR 3	-	-	-	-	-	-	-	-	-	49	49
Bare Root 3-0	Init	-	-	-	-	14	-	-	15	-	-	15
	YR 1	-	-	-	-	19	-	-	21	-	-	21
	YR 3	-	-	-	-	46	-	-	30	-	-	33

TABLE 3-85 Continued

		Upsal-quitch	Napi-siquit	Lower Miramichi	Upper Miramichi	Kent	Queens Charlotte	Fundy	York	Carleton	Restigouche Tobique	Provincial Average
Jack Pine												
Winter Crop Paper Pot	Init	-	-	-	-	-	-	6	-	-	-	6
	YR 1	-	-	-	-	-	-	15	-	-	-	15
	YR 3	-	-	-	-	-	-	79	-	-	-	79
Summer Crop Paper Pot	Init	7	-	9	10	-	-	-	-	-	-	8
	YR 1	15	-	22	19	-	-	-	-	-	-	19
	YR 3	44	-	89	74	-	-	-	-	-	-	69
Overwintered Paper Pot	Init	-	14	-	9	9	9	-	-	11	-	11
	YR 1	-	25	-	22	27	21	-	-	29	-	25
	YR 3	-	69	-	88	87	77	-	-	91	-	82
Overwintered Combicel	Init	-	-	-	-	-	-	-	-	-	10	10
	YR 1	-	-	-	-	-	-	-	-	-	24	24
	YR 3	-	-	-	-	-	-	-	-	-	58	58
Bare Root 2-0	Init	-	-	-	-	16	21	20	-	-	-	19
	YR 1	-	-	-	-	31	46	33	-	-	-	36
	YR 3	-	-	-	-	97	108	86	-	-	-	95
Bare Root 3-0	Init	-	-	12	-	-	-	-	-	-	-	12
	YR 1	-	-	38	-	-	-	-	-	-	-	38
	YR 3	-	-	95	-	-	-	-	-	-	-	95
Winter Crop Jiffy Pot	Init	-	-	-	8	-	-	-	-	-	-	8
	YR 1	-	-	-	18	-	-	-	-	-	-	18
	YR 3	-	-	-	85	-	-	-	-	-	-	85
Red Pine												
Winter Crop Paper Pot	Init	-	-	-	7	-	-	-	-	-	-	7
	YR 1	-	-	-	10	-	-	-	-	-	-	10
	YR 3	-	-	-	33	-	-	-	-	-	-	33

TABLE 3-85 Continued

		Upsal-quitch	Nepi-siquit	Lower Miramichi	Upper Miramichi	Kent	Queens Charlotte	Fundy	York	Carleton	Restigouche Tobique	Provincial Average
Larch												
Paper Pot	Init	-	18	-	-	-	-	-	-	-	-	18
	YR 1	-	29	-	-	-	-	-	-	-	-	29
	YR 3	-	68	-	-	-	-	-	-	-	-	68
Winter Crop Paper Pot	Init	-	-	-	-	-	-	-	-	-	18	18
	YR 1	-	-	-	-	-	-	-	-	-	34	34
	YR 3	-	-	-	-	-	-	-	-	-	69	69

TABLE 4-85

Density of all natural stems in third year assessment plots by license for selected 1985 plantations

License	Plantation	Silviculture Treatment Number	Area (ha)	Density - Competition Species (Stems/ha)											
				Natural Softwood				Natural Hardwood						Shrubs/Other	
				Spruce	Pine	Fir	Other Soft.	Maple	Yellow Birch	Beech	White Birch	Aspen	Other Hard.	Shrubs	Other
Upsalquitch	Goulette Bk.	101003585BP0	72	51	0	153	51	0	0	0	51	0	0	1146	0
	Popelogan R.	101003885BP1	5	64	0	446	0	64	0	0	0	0	0	382	165000
	Popelogan R.	101003885BP2	86	25	0	153	0	76	0	0	0	0	0	2241	80000
	Jacquet R. Lk.	101006285BP0	24	25	0	0	0	13	0	0	255	1222	0	2776	180000
	Williams Bk.	101052785BP0	31	64	0	668	0	0	0	0	0	0	0	0	0
			218												
	LICENSE AVERAGE			41	0	214	9	27	0	0	100	437	0	1651	102143
Nepisiguit	SBr Forty Mi Bk	102002885BP0	74	64	0	64	0	0	0	0	0	16	0	1401	5000
	Rio Road	102003385BP1	9	0	0	127	0	0	42	0	2292	0	0	7427	400000
	Nine Mile Bk.	102005085BP0	94	0	0	51	0	153	0	0	331	153	76	5169	56000
			177												
	LICENSE AVERAGE			32	0	72	0	48	8	0	533	56	24	3708	95000
Lower Miramichi	Cold Brook	203001185BP0	53	1146	51	153	25	0	0	0	484	51	0	8174	76000
	BlackvilleTower	203001785BP0	93	38	64	471	0	191	0	0	420	191	13	1566	8000
	Fraser Burchill	203002585BP1	111	306	0	968	0	25	0	0	2648	0	25	1884	16000
	Fraser Burchill	203002585BP3	61	127	0	280	0	0	0	0	662	25	0	1783	4000
	Fraser Burchill	203008285BP0	72	102	25	127	0	76	0	0	153	0	0	5424	52000
			390												
	LICENSE AVERAGE			293	34	412	4	81	0	0	798	76	8	3400	27333
Upper Miramichi	Bartibog River	204000585BP1	48	917	25	0	0	25	0	0	382	204	0	5653	56000
	Spring Brook	204000685BP0	129	38	25	547	13	0	155	38	1120	318	64	3196	88000
	McCormack Lake	204001185BP1	35	335	20	1206	0	7	0	0	556	0	0	335	13684
	McCormack Lake	204001185BP2	326	433	51	2165	0	0	0	0	204	25	0	738	8000
	Barracks Brook	204002285BP0	105	0	0	28	0	0	0	0	1882	0	0	3282	2222
	Blueberry Road	204004685BP0	54	458	0	229	0	0	0	0	2292	357	0	6545	28000

TABLE 4-85 Continued

License	Plantation	Silviculture Treatment Number	Area (ha)	Density - Competition Species (Stems/ha)											
				Natural Softwood				Natural Hardwood						Shrubs/Other	
				Spruce	Pine	Fir	Other Soft.	Maple	Yellow Birch	Beech	White Birch	Aspen	Other Hard.	Shrubs	Other
Upper Miramichi	Blue Berry Rd.	204019885B.0	118	32	0	95	0	0	0	0	350	2101	0	3119	30000
	Barracks Brook	204051785BP0	154	764	0	9422	0	32	95	0	1210	0	0	1655	80000
	Heath Steele	204056085BP2	46	0	0	76	0	0	0	0	662	458	0	11943	236000
			1015												
	LICENSE AVERAGE			287	15	1198	2	6	29	6	949	255	10	3202	49091
Kent	Vautour	205002785BP1	51	0	0	446	0	0	0	0	509	7449	64	1974	20000
	Vautour	205002785BP2	10	0	1273	509	0	0	0	0	9040	255	127	6112	0
	Molus River	205007685BP1	21	0	0	382	64	0	0	0	637	64	318	5157	0
	Molus River	205007685BP2	3	0	0	191	0	0	0	0	5157	3692	573	1592	10000
	Molus River	205007685BP3	6	0	0	573	0	0	0	0	573	1655	0	1019	0
			91												
	LICENSE AVERAGE			0	141	410	14	0	0	0	2532	2886	226	2844	6667
Queens Charlotte	Michigan Bk.	206000385BP2	63	25	0	369	0	0	0	0	0	484	76	191	4000
	Deadwater Bk.	406014785BP1	44	0	0	0	0	0	25	0	3260	0	0	153	36000
	Deadwater Bk.	406014785BP2	66	0	0	0	0	0	0	0	42	0	0	679	6667
			173												
	LICENSE AVERAGE			14	0	205	0	0	7	0	912	269	42	262	13333
Fundy	Pollett River	307011285BP1	115	25	0	535	0	0	0	0	1197	0	0	917	0
	Pollett River	307011285BP2	59	42	0	255	0	42	0	0	722	42	85	2801	6667
	Little Barren	407003885BP0	42	309	0	1764	0	146	0	0	18	73	18	6730	54286
	McGivney	407010685BP1	70	0	0	1846	0	127	0	0	255	7894	0	7512	110000
	McGivney	407010685BP2	98	32	0	223	0	0	0	0	0	1019	0	32	15000
			384												
	LICENSE AVERAGE			121	0	970	0	67	0	0	418	976	18	3583	32381

TABLE 4-85 Continued

License	Plantation	Silviculture Treatment Number	Area (ha)	Density - Competition Species (Stems/ha)										Shrubs/Other	
				Natural Softwood				Natural Hardwood							
				Spruce	Pine	Fir	Other Soft.	Maple	Yellow Birch	Beech	White Birch	Aspen	Other Hard.	Shrubs	Other
York	Rocky Bk. Lake	408000885BP0	41	0	0	178	0	25	51	0	25	0	25	2878	120000
	Springfield	408001385BP0	51	0	0	204	1961	229	0	0	127	5984	204	5246	24000
	Grand John	408100385BP0	45	25	0	789	13	1057	0	0	369	115	13	3629	146000
			137												
	LICENSE AVERAGE			13	0	490	497	592	13	0	223	1553	64	3845	109000
Carleton	Governors Bk.	409002185BP0	94	51	0	840	0	331	0	0	51	25	0	2674	228000
	Ryan Brook	409002395BP0	103	0	0	0	0	0	0	0	0	0	0	458	20000
	Green Hill	409002485BP0	89	0	0	0	0	0	0	0	51	586	229	6799	96000
			286												
	LICENSE AVERAGE			17	0	280	0	110	0	0	34	204	76	3310	114667
Restigouche-Tobique	Falls Brook	110020885BP0	3	0	0	0	0	0	0	0	0	0	0	0	124000
	Big Cedar	510016085BP0	96	0	0	38	0	675	0	0	51	25	0	942	130000
	Indian Brook	510017185BP1	14	21	0	106	0	212	0	0	318	0	64	2143	600000
	SBr Kedgwick R.	510017285BP0	42	127	0	204	0	399	0	0	688	34	0	3141	232000
	Portage Brook	510017385BP0	25	0	0	51	0	204	0	0	1859	25	0	2139	292000
	Kedgwick Forks	510018385BP1	35	10	0	411	0	2928	343	0	3702	29	0	196	403077
	McLaughlin Bk.	510018485BP0	37	0	0	433	0	6748	1095	0	2928	89	0	5055	236000
	States Lake	510018585BP0	48	25	76	0	0	229	0	0	306	1299	0	1579	44000
	Burnt Camp Bk.	510019785BP0	9	0	0	0	0	2610	0	0	64	0	0	955	110000
	Clearwater Lake	510020085BP0	77	25	0	306	0	306	535	0	2445	0	0	178	328000
	NBr. Gounamtiz	510020585BP0	42	0	0	658	0	21	0	0	3077	85	0	1125	116667
	LtlFifteen MBk.	510020685BP0	21	0	0	713	0	153	0	0	840	0	0	1248	160000
	States Lake	510021085BP0	17	343	0	215	10	69	0	0	881	823	10	1929	118462
	McKeen Brook	510501085BP0	44	0	0	1197	0	178	637	0	7971	0	102	1452	336000
			510												
	LICENSE AVERAGE			64	4	297	1	1274	199	0	1752	186	10	1786	234393
	PROVINCIAL AVERAGE			120	11	522	32	471	72	1	1025	417	24	2552	116364

Table 5-85

Plantation assessment summary for selected 1985 plantations

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Initial Year Height (cm)	First Year Survival (%)	First Year Height (cm)	Third Year Survival (%)	Third Year Height (cm)
Upsalquitch	101003585BP0	Shark Fin Barrels	72	bS	WCPP	13	51	14	51	32
	101003885BP1	Shark Fin Barrels	5	jP	SCPP	6	79	17	75	65
	101003885BP2	Shark Fin Barrels	86	bS	OWPP	11	72	26	68	58
	101006285BP0	Burn	24	jP	SCPP	7	70	15	70	36
	101052785BP0	Shark Fin Barrels	31	bS	OWPP	14	98	24	98	68
			218							
	LICENSE AVERAGE					9	72	18	71	49
Nepisiguit	102002885BP0	C & H Plow	74	jP	OWPP	14	98	25	97	69
	102003385BP1	C & H Plow	9	tL	PP	18	89	29	85	68
	102005085BP0	C & H Plow	94	bS	WCPP	15	91	19	88	46
			177							
	LICENSE AVERAGE					15	94	24	92	61
Lower Miramichi	203001185BP0	Disc Trencher	53	bS	WCPP	15	80	19	75	39
	203001785BP0	C & H Plow	93	jP	3-0	12	94	38	93	95
	203002585BP1	C & H Plow	111	jP	SCPP	8	96	20	96	86
	203002585BP3	C & H Plow	61	jP	SCPP	11	92	37	91	124
	203008285BP0	No-site Preparation	72	jP	SCPP	7	92	13	89	65
			390							
	LICENSE AVERAGE					11	91	27	90	84
Upper Miramichi	204000585BP1	C & H Plow	48	rP	WCPP	7	89	10	80	33
	204000685BP0	C & H Plow	129	jP	SCPP	10	85	19	83	79
	204001185BP1	C & H Plow	35	jP	WCJP	8	94	18	94	85
	204001185BP2	C & H Plow	326	jP	SCPP	10	97	21	89	80
	204002285BP0	No-site Preparation	105	jP	OWPP	9	93	22	92	88

Table 5-85 Continued

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Initial Year Height (cm)	First Year Survival (%)	First Year Height (cm)	Third Year Survival (%)	Third Year Height (cm)
Upper Miramichi Continued	2040046858P0	C & H Plow	54	bS	WCPP	16	69	27	59	72
	2040198858P0	C & H Plow	118	bS	WCPP	14	90	26	88	69
	2040517858P0	C & H Plow	154	bS	OWPP	15	91	26	88	55
	2040560858P2	Burn	46	JP	SCPP	9	83	16	81	58
			1015							
	LICENSE AVERAGE					10	89	20	86	75
Kent	2050027858P1	C & H Plow	51	JP	OWPP	10	100	30	100	83
	2050027858P2	C & H Plow	10	bS	OWPP	14	87	18	87	43
	2050076858P1	C & H Plow	21	JP	2-0	16	100	31	100	97
	2050076858P2	C & H Plow	3	wS	3-0	14	97	19	97	46
	2050076858P3	C & H Plow	6	JP	OWPP	9	97	24	97	91
			91							
	LICENSE AVERAGE					13	97	25	97	76
Queens-Charlotte	2060003858P2	Marden Roller	63	JP	OWPP	9	83	21	83	77
	4060147858P1	Anchor Chains	44	bS	3-0	18	85	28	85	55
	4060147858P2	Anchor Chains	66	JP	2-0	21	68	46	66	108
			173							
	LICENSE AVERAGE					13	81	26	81	75
Fundy	3070112858P1	Anchor Chains	115	bS	WCPP	10	87	20	83	70
	3070112858P2	Anchor Chains	59	bS	WCPP	11	87	19	85	73
	4070038858P0	Anchor Chains	42	JP	WCPP	6	69	15	68	79
	4070106858P1	Anchor Chains	70	bS	WCPP	19	94	24	90	47
	4070106858P2	Anchor Chains	98	JP	2-0	20	87	33	84	86
			384							
	LICENSE AVERAGE					12	82	22	79	74

Table 5-85 Continued

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	Initial Year Height (cm)	First Year Survival (%)	First Year Height (cm)	Third Year Survival (%)	Third Year Height (cm)
York	408000885BP0	Anchor Chains	41	bS	WCPP	16	90	26	88	57
	408001385BP0	Anchor Chains	51	bS	OWPP	18	86	29	84	75
	408100385BP0	Shark Fin Barrels	45	wS	3-0	15	86	21	82	30
			137							
	LICENSE AVERAGE					16	87	24	84	49
Carleton	409002185BP0	Anchor Chains	94	bS	OWPP	18	86	20	81	55
	409002385BP0	Anchor Chains	103	jP	OWPP	10	99	26	94	84
	409002485BP0	Anchor Chains	89	jP	OWPP	12	95	33	93	98
			286							
	LICENSE AVERAGE					14	93	26	88	78
Restigouche-Tobique	110020885BP0	No-site Preparation	3	bS	OWCA	22	90	29	87	59
	510016085BP0	C & H Plow	96	bS	OWCA	20	87	32	81	43
	510017185BP1	C & H Plow	14	bS	WCCO	13	92	29	74	49
	510017285BP0	C & H Plow	42	tL	WCPP	18	92	34	77	69
	510017385BP0	C & H Plow	25	bS	OWCA	16	97	33	92	63
	510018385BP1	C & H Plow	35	bS	WCCO	23	98	36	81	66
	510018485BP0	C & H Plow	37	wS	WCPP	16	99	26	94	49
	510018585BP0	Disc Trencher	48	bS	OWPP	13	98	23	97	49
	510019785BP0	Bracke	9	jP	OWCO	9	97	27	91	71
	510020085BP0	C & H Plow	77	bS	OWPP	13	93	25	85	53
	510020585BP0	Disc Trencher	42	bS	WCPP	17	93	19	89	45
	510020685BP0	Other	21	bS	OWCA	24	86	30	84	62
	510021085BP0	Disc Trencher	17	jP	OWCO	11	95	23	94	54
	510501085BP0	C & H Plow	44	bS	OWCA	15	91	33	89	73
			510							
	LICENSE AVERAGE					17	94	29	86	57
	PROVINCIAL TOTAL					13	89	25	85	66

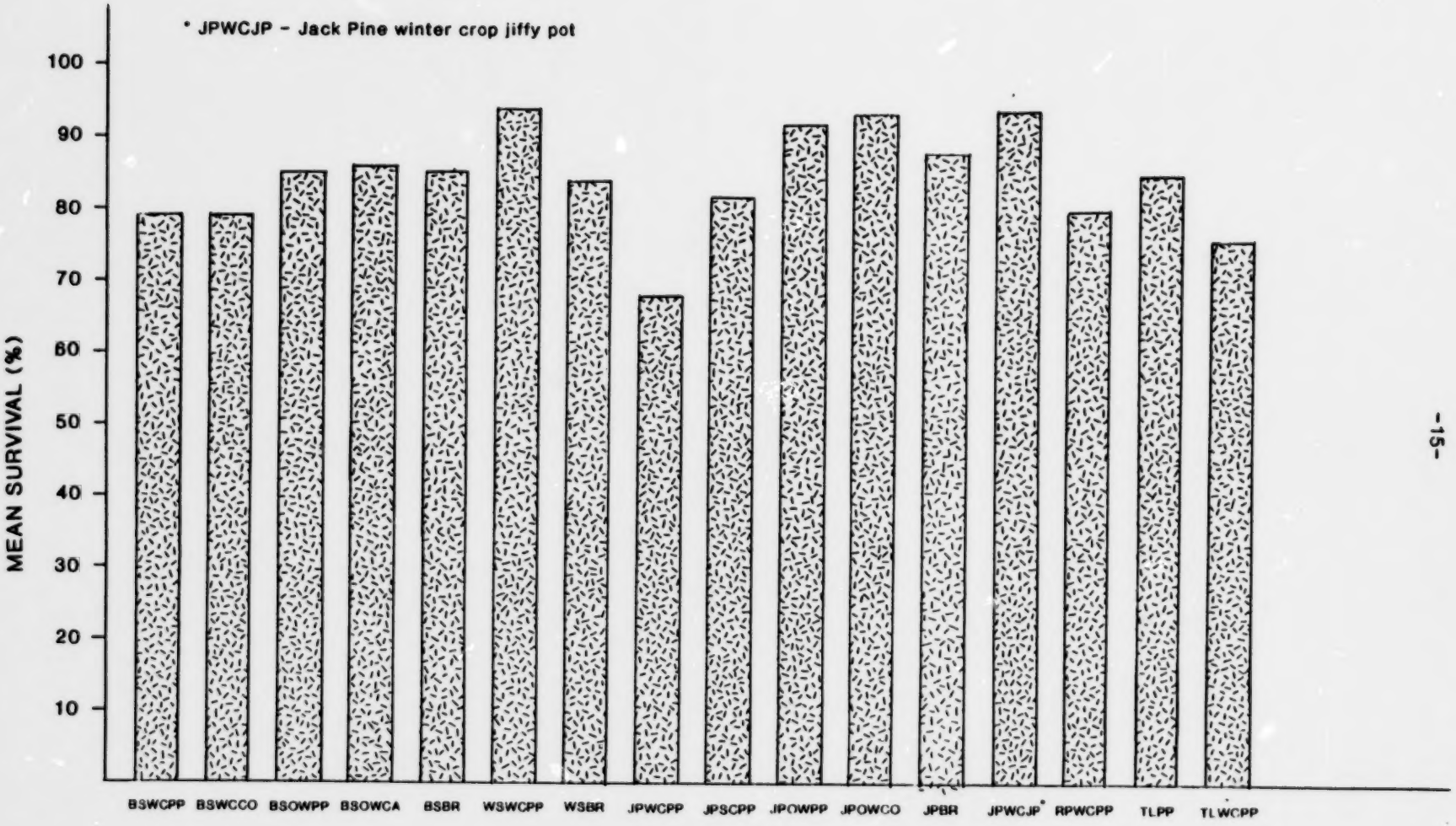

FIGURE 1-85. Third year mean survival percentages for planted trees grouped by species and stock type - 1985 Plantations

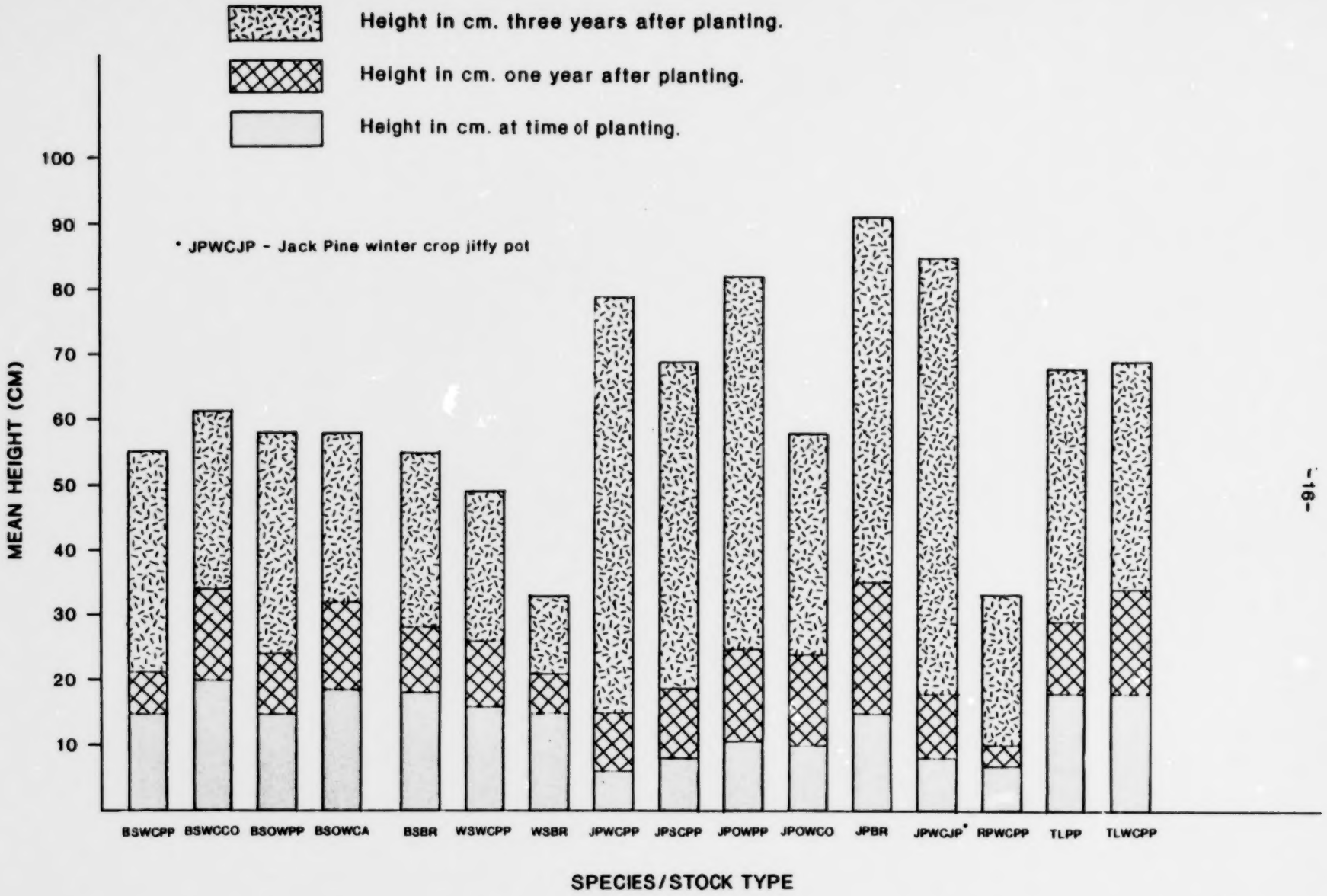

FIGURE 2-85. Mean heights for three year old planted trees represented by species and stock type - 1985 Plantations.